Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

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Listing of Claims:

- 1 1. (Currently Amended): A method for conducting the an exchange of data with a terminal-based application program comprising the steps of:
- (a) mapping a plurality of available states within a terminal data stream of the
 terminal-based application program to respective discrete state definitions within a finite
 state machine, including:
 - (1) interpreting any element, terminal command, data item, or sequence of terminal commands and data items within the terminal data stream as a discrete state having a respective one of the state definitions, and
 - (2) using an object model containing a set of interfaces, said interfaces being utilized as the a basis for the state definitions; and
 - (b) defining a plurality of state transition rules which are utilized to manipulate the state definitions within the finite state machine.
- 1 2. (Original): The method of claim 1, wherein the object model contains the set of interfaces and a set of classes.
- 3. (Original): The method of claim 1, wherein manipulation of the state transition rules allows for two-way communication between a client and the terminal-based
- 3 application program.
- 4. (Original): The method of claim 1, further comprising creating one or more data sets, each comprising a definable set of data elements from within the terminal-based
- 3 application program.

- 1 5. (Original): The method of claim 1, wherein the object model is a distributed
- 2 object transaction model, which allows for access to data from the terminal-based
- application program by any local or remote client service, system, or application.
- 1 6. (Original): The method of claim 1 further comprising unifying and resolving
- 2 multiple terminal-based applications through unification and resolution of a plurality of
- 3 instances of a program that performs steps (a) and (b).
- 7. (Original): The method of claim 6, further comprising creating a plurality of data
- sets, each data set being formed through a unification of multiple data sets from the
- plurality of instances of the program that performs steps (a) and (b).
- 1 8. (Original): The method of claim 6, wherein each object model is a distributed
- 2 object transaction model which allows for access to data from the terminal-based
- 3 application program by any local or remote client service, system, or application.
- 1 9. (Original): The method of claim 6, further comprising using an expert system
- which accesses and resolves data items from the plurality of instances of the program that
- 3 performs steps (a) and (b) and translates them into cohesive super sets of data.
- 1 10. (Currently Amended): The method of claim 9, further comprising using the object
- 2 model for the creation of creating data resolution and translation rules.
- 1 11. (Currently Amended): The method of claim 9 further comprising using the object
- 2 model for definition of actions to proactively resolve data errors or discrepancies across
- 3 the-an underlying plurality of instances of the program that performs steps (a) and (b).
- 1 12. (Currently Amended): The method of claim 1, further comprising altering an
- 2 interface presented to a user of the terminal-based application program through addition
- of one of the a group consisting of new screens and new data fields within existing

- 4 screens, wherein the new screens and new data fields are populated with data retrieved
- 5 from an alternate data source.
- 1 13. (Original): The method of claim 12, further comprising monitoring the terminal
- 2 data stream.
- 1 14. (Original): The method of claim 13, further comprising:
- 2 recognizing pre-defined states within the terminal data stream, which define one
- or more states during a user's interaction with the terminal-based application program;
- 4 and
- 5 presenting the new data screens or fields to the user.
- 1 15. (Original): The method of claim 12, wherein the object model describes
- 2 interaction between the alternate data source and a program that performs steps (a) and
- 3 (b).
- 1 16. (Original): The method of claim 12, wherein the object model describes:
- 2 the addition of new user screens or the addition of new data fields to existing
- 3 application screens, and
- 4 interaction between the user and the new screens or fields.
- 1 17. (Original): The method of claim 1 further comprising using software tools to
- 2 automate creation and maintenance of an integration system based on knowledge of a
- domain of the terminal-based application program.
- 1 18. (Currently Amended): A system for conducting the an exchange of data with a
- 2 terminal-based application program comprising:
- a finite state machine, in which a plurality of available states within a terminal
- data stream of the terminal-based application program are mapped to respective discrete
- 5 state definitions, including:

6		means for interpreting any element, terminal command, data item, or	
7		sequence of terminal commands and data items within the terminal data stream as	
8		a discrete state having a respective one of the state definitions;	
9		means for using an object model containing a set of interfaces, said	
10		interfaces being utilized as the a basis for the state definitions; and	
11		means for defining a plurality of state transition rules which are utilized to	
12		manipulate the state definitions within the finite state machine.	
1	19.	(Original): The system of claim 18, wherein the object model contains the set of	
2	interf	interfaces and a set of classes.	
1	20.	(Canceled):	
1	21.	(Canceled):	
1	22.	(Canceled):	
1	23.	(Original): The system of claim 18 wherein multiple terminal-based applications	
2	are u	are unified and resolved through unification and resolution of a plurality of instances of	
3 .	the fi	the finite state machine.	
1	24.	(Original): The system of claim 23, further comprising a plurality of data sets,	
2	each	each data set being formed through a unification of multiple data sets from the plurality	
3	of ins	of instances of the finite state machine.	
1	25.	(Original): The system of claim 23, wherein each object model is a distributed	
2	objec	object transaction model which allows for access to data from the terminal-based	

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application program by any local or remote client service, system, or application.

- 1 26. (Original): The system of claim 23, further comprising an expert system which
- 2 accesses and resolves data items from the plurality of instances of the finite state machine
- 3 and translates them into cohesive super sets of data.
- 1 27. (Currently Amended): The system of claim 26, wherein the object model is used
- 2 for the creation of creating data resolution and translation rules.
- l 28. (Currently Amended): The system of claim 26 wherein the object model is used
- 2 for definition of actions to proactively resolve data errors or discrepancies across the an
- 3 underlying plurality of instances of the finite state machine.
- 1 29. (Currently Amended): The system of claim 18, further comprising an interface
- 2 presented to a user of the terminal-based application program, the interface formed
- 3 through addition of one of the a group consisting of new screens and new data fields
- within existing screens, wherein the new screens and new data fields are populated with
- 5 data retrieved from an alternate data source.
- 1 30. (Original): The system of claim 29, further comprising means for monitoring the
- 2 terminal data stream.
- 1 31. (Original): The system of claim 30, wherein:
- 2 pre-defined states are recognized within the terminal data stream, which define
- one or more states during a user's interaction with the terminal-based application
- 4 program; and
- 5 the new data screens or fields are presented to the user.
- 1 32. (Original): The system of claim 29, wherein the object model describes
- 2 interaction between the alternate data source and the finite state machine.
- 1 33. (Original): The system of claim 29, wherein the object model describes:

- the addition of new user screens or the addition of new data fields to existing application screens, and
- 4 interaction between the user and the new screens or fields.
- 1 34. (Original): The system of claim 18 further comprising software tools that
- 2 automate creation and maintenance of an integration system based on knowledge of a
- domain of the terminal-based application program.
- 1 35. (Currently Amended): The system of claim 18, further comprising a tool which
- 2 automates the capture of a terminal data stream and the creation of state definitions for a
- 3 particular terminal-based application.
- 1 36. (Original): The system of claim 35, wherein the tool allows the user to define the
- 2 data sets which will be made available.
- 1 37. (Original): The system of claim 36, wherein the tool allows the user to define
- 2 state transition rules to access and manipulate the data sets, to read and write data
- 3 elements, using a point-and-click flowchart-style interface.
- 1 38. (Original): The system of claim 35, further comprising software tools which
- 2 automate creation and maintenance of a unification and resolution system based on a
- 3 knowledge of underlying integration systems being unified.
- 1 39. (Original): The system of claim 35, wherein the tool allows the user to define the
- 2 data super-sets which will be made available by the system.
- 1 40. (Original): The system of claim 35, wherein the tool allows the user to create and
- 2 define data unification and resolution rules.
- 1 41. (Original): The system of claim 35, wherein the tool allows allows the user to
- 2 define rules to manage data errors and discrepancies in the terminal data stream.

1	42.	(New): A computer readable medium encoded with computer program code,		
2		in when the computer program code is executed by a processor, the processor		
3				
	performs a method for conducting the exchange of data with a terminal-based application			
4	program comprising the steps of:			
5	(a)	mapping a plurality of available states within a terminal data stream of the		
6	terminal-based application program to respective discrete state definitions within a finite			
7	state n	nachine, including:		
8		(1) interpreting any element, terminal command, data item, or sequence of		
9		terminal commands and data items within the terminal data stream as a discrete		
10		state having a respective one of the state definitions, and		
11		(2) using an object model containing a set of interfaces, said interfaces being		
12		utilized as the basis for the state definitions; and		
13	(b)	defining a plurality of state transition rules which are utilized to manipulate the		
14	state d	efinitions within the finite state machine.		
1	43.	(New): The computer readable medium of claim 41, wherein the method further		
2	comprises unifying and resolving multiple terminal-based applications through			
3	unification and resolution of a plurality of instances of a program that performs steps (a)			
4	and (b).			

(New): The computer readable medium of claim 41, wherein the method further

comprises using software tools to automate creation and maintenance of an integration

system based on knowledge of a domain of the terminal-based application program.

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